****
SPACE GATEWAY SUPPORT (SGS) **SGS-08 38 00.00 99 (April 2006)**

Preparing Activity: SGS-DE **Superseding SGS-08325J (February 2005)**

SGS GUIDE SPECIFICATIONS

References are NOT in Agreement with UMRL dated 01 April 2006

Revised throughout - changes not indicated by CHG tags
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SECTION 08 38 00.00 99

TRAFFIC DOORS
04/06

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NOTE: This section covers Monolithically (one piece) formed, insulated, high impact door systems.

Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer.

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PART 1 GENERAL

1.1 SUMMARY

Section Includes:

a. Monolithically (one piece) formed, insulated, high impact door systems

b. Spring bumpers and windows

c. Hardware and accessories

Related Sections:

SGS Section 05 50 00.00 99 METAL FABRICATIONS: Prepared opening with steel channel jambs and header.

1.2 SUBMITTALS

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NOTE: Review submittal description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control. Include a columnar list of appropriate products and tests beneath each submittal description.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

Submittal items not designated with a "G" are considered as being for information only for Army projects and for Contractor Quality Control approval for Navy, Air Force, and NASA projects.

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The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES in sufficient detail to show full compliance with the specification:

Product information in print or electronic format.

SD-02 Shop Drawings

Show fabrication details.

Include door elevations, head, jamb and meeting stile details including full or partial gaskets.

SD-04 Samples

Full range of manufacturer's standard color selections for panel.

SD-08 Manufacturer's Instructions

Manufacturer's Installation Instructions.

SD-11 Closeout Submittals

a. Cleaning and Maintenance Instructions
b. Warranty

1.3 QUALITY ASSURANCE

Manufacturer Qualifications: Minimum 5 years experience in producing doors of the type specified.

1.4 PRECONSTRUCTION REQUIREMENTS, DELIVERY STORAGE AND HANDLING

Prior to commencement of construction submit the following for review and approval:

Shop drawings showing all fabrication details, door elevations, head, jamb and meeting stile details including full or partial gaskets.

Three copies of manufacturer's standard color selections for panel

Three copies of Manufacturer's Installation Instructions,Cleaning and Maintenance Instructions, and Warranty.

Refer to SGS Section 01 11 00 SUMMARY OF WORK regarding transport, handling, storage, and protection of Products.

Deliver product in manufacturer's original unopened packages with label legible and intact.

Examine doors upon delivery for damage. Verify doors were shipped on edge or in upright position as indicated on packaging by manufacturer.

Note specific doors shipped in other than on edge or upright position on bill of lading and contact manufacturer.

Store doors at project site on edge or in upright position and under cover following manufacturer's instructions printed on carton.

1.5 PROJECT/SITE CONDITIONS

Existing Conditions: Frames installed, under other sections, must be level and plumb.

1.6 WARRANTY

365 days from the date of installation or 395 days from the date of shipment, whichever comes first. Panel Breakage Warranty requires a minimum 84" wide opening, loads not to exceed 70% of opening widths. Optional bumpers and lower hinge guard may be required.

PART 2 PRODUCTS

2.1 MANUFACTURERS

Subject to compliance with requirements, No Substitutions.

2.1.1 Manufacturer

Chase Industries, Inc. (DBA Chase Doors)
Durus Products, 2809 SW 13th Street, Redmond, OR 97756
Telephone: (800) 543-4455. Fax: (800) 285-0126.

2.1.2 Model

Durulite Industrial

2.2 DOOR COMPONENTS

2.2.1 Door Panel

Door Panel must be a monolithic, one piece, hollow shell of high impact, cross-linked polyethylene with minimum wall thickness of 1/4", overall panel thickness of 1-7/8" and textured finish. Bottom, leading and back edges have molded in keyways to accept gaskets.

2.2.2 Door Panel Core

Door panel core must be of high density, foamed-in-place, non-CFC urethane bonded to interior of the cross linked polyethylene shell providing an insulating R factor of 12.54.

2.2.3 Standard Hinge System

Standard hinge system consists of the following components:

2.2.3.1 Upper Hinge

Upper hinge must be self closing "V" cam design; [1-3/8" standard rise, 3/4" low rise, 180(, spring assist]. The roller assembly design must allow up and down and back and forth adjustments to the door. Upper hinge seal must be black PVC with a flexible nylon reinforced vinyl skirt.

2.2.3.2 Lower Hinge

Lower hinge must be pillow block design of ductile iron with UHMW sleeve and ductile iron lower hinge adapter which has provision for mounting an optional spring assist.

2.2.3.3 Hinge Shaft

Hinge shaft must be 1-5/16" (33mm) diameter inserted with screws through tubular steel spine which is foamed -in -place during fabrication and runs full length of door.

2.2.4 Vision Panel

Window glazing must be 1/8" thick polycarbonate with aluminum frame recessed a minimum of 1/8" from the face of the panel. Minimum height from finish floor to the bottom of the viewing area must not exceed 48 inches.

[PANEL SIZE	WINDOW SIZE
24"	10 1/2" x 22 1/2"
34"	18 1/2" x 22 1/2"
27, 30"	14 1/2" X 22 1/2"
32"	16 1/2" X 22 1/2"
36, 42, 48"	20 1/2" X 22 1/2"
54, 60"	22 1/2" X 22 1/2"]

2.2.5 Gaskets

Gaskets must be 60 to 80 durometer extruded black santoprene fitted into matching, pre-formed gasket key and held by friction. Gaskets have wings which seal against rounded edges of the door.

[Fully Gasketed: Leading edge must be [blade-type for a double door or bulb-type for a single panel]. Bulb type gasket is used on the bottom and between the back of the door and jamb. Top seal is a coextruded PVC extrusion with flexible PVC gasket.]

[Partially Gasketed: Leading edge must be [blade-type for a double door] [bulb-type for a single panel]].

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THE FOLLOWING ACCESSORIES ARE OPTIONAL. SELECT AS DESIRED AND DELETE OTHERS
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2.3 ACCESSORIES

[Polyethylene Spring Bumpers with 4" projection, [12", 18", 24", 36" or 42" heights}. Color to be determined by Architect from manufacturer's standard selection.]]

[Lower Hinge Guards]

[Double Pane View Windows (for use when ambient temperature between areas is 30(or more. Not to be used on freezer doors)]

[Limiting Posts, architecture to select from manufacturer's standard selection.]

2.4 FABRICATION

Appropriate size panel is roto-molded with back edge steel and gasket extrusions in place. Panel is then foamed-in-place with non-CFC urethane. The panel is then trimmed, drilled, fit with hardware, vision panel, gasketing and required options installed. Completed door is serialized and packaged with hinge mounting hardware kit.

Complete unit to be assembled at factory, neat in appearance, free from defects and warping.

2.5 SOURCE QUALITY CONTROL

Tolerances: Width and height of each panel: +/-1/4 inch.

PART 3 EXECUTION

3.1 EXAMINATION

Verify that openings are ready to receive work and opening dimensions and clearances are as indicated on drawings.

Coordinate with responsible entity to perform corrective work on unsatisfactory conditions.

Commencement of work by installer is acceptance of opening conditons.

3.2 INSTALLATION

Follow manufacturer's instructions. Coordinate sequence of installation with other work to avoid delays.

Install doors accurately in their respective frames with clearances, necessary anchors, hardware and accessories according to the manufacturer's data and as specified.

3.3 ADJUSTING

Follow manufacturer's instructions as required to:

a. Clean and lubricate operating parts.
b. Adjust to open and close smoothly and freely without binding.
c. Check seals for proper fit.

3.4 CLEANING

Clean surfaces soiled by work as recommended by manufacturer.

Remove surplus materials and debris from the site.

-- End of Section --